

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (currently amended) An electrolytic capacitor ~~obtained by impregnating~~ comprising a capacitor element impregnated with an electrolyte solution, wherein the capacitor element ~~is formed by winding an~~ contains a wound anode electrode foil and a wound cathode electrode foil, which are connected to an anode tab and to a cathode tab respectively, ~~together with an~~ intervening a separator, ~~housing and wherein~~ the capacitor element is housed in a cylindrical outer case with a bottom, and ~~sealing an open end of the outer case~~ is sealed by a sealing member, ~~characterized in that a~~ wherein the electrolyte solution ~~containing contains~~ aluminum tetrafluoride salt ~~is used as the electrolyte solution,~~ and a wherein the cathode electrode foil ~~that~~ shows greater noble electrode potential ~~at least in said electrolyte solution~~ than an electrode potential of the cathode tab ~~is used as the cathode electrode foil in said electrolyte solution.~~
2. (currently amended) An electrolytic capacitor according to claim 1, ~~characterized in that a~~ wherein the cathode electrode foil ~~that~~ is an aluminum foil with a layer of 0.02-0.1 μm thick coated on its surface, wherein the layer is made of a metal nitride or a metal, and wherein the metal nitride is selected from the group consisting of titanium nitride, zirconium nitride, tantalum nitride and niobium nitride ~~or a~~ and the metal is selected from the group consisting of titanium, zirconium, tantalum and niobium ~~is laminated on a surface of the aluminum foil is used as the cathode electrode foil.~~
3. (currently amended) An electrolytic capacitor according to claim 1, additionally comprising ~~obtained by winding~~ an anode electrode foil provided with an anode leading means and a cathode electrode foil provided with a cathode leading means, ~~which is made of aluminum subjected to a chemical treatment, provided with a~~ wherein the cathode leading means is made of aluminum of more than 99.9% of purity, and wherein the cathode electrode foil is made of aluminum

- ~~subjected to a chemical treatment together with intervening a separator to form a capacitor element, impregnating the capacitor element with a electrolyte solution containing an aluminum tetrafluoride salt, and then housing it in a outer case.~~
4. (currently amended) An electrolytic capacitor ~~obtained by winding an anode electrode foil, according to claim 1, wherein the electrolyte solution contains a cathode electrode foil and a separator to form a electrolytic capacitor and impregnating the electrolytic capacitor with a electrolyte solution, and housing it in an outer case, wherein the electrolyte solution containing aluminum tetrafluoride salt is used as said electrolyte solution, and wherein the electrode foil, the cathode foil or both are subjected to a phosphate treatment is used as the anode electrode foil and the cathode electrode foil.~~
5. (currently amended) An electrolytic capacitor according to ~~claims~~ claim 1 [[to 4]], wherein the sealing member comprises a partial cross-linking peroxide butyl rubber which is formed by ~~that~~ adding peroxide ~~is added~~ as a cross-linking agent to a butyl rubber polymer, wherein the butyl rubber polymer comprises ~~comprising~~ a copolymer of isobutylene, isoprene and divinylbenzene ~~is used as the sealing member.~~
6. (new) An electrolytic capacitor according to claim 2, wherein the sealing member comprises a partial cross-linking peroxide butyl rubber which is formed by adding peroxide as a cross-linking agent to a butyl rubber polymer, wherein the butyl rubber polymer comprises a copolymer of isobutylene, isoprene and divinylbenzene.
7. (new) An electrolytic capacitor according to claim 3, wherein the sealing member comprises a partial cross-linking peroxide butyl rubber which is formed by adding peroxide as a cross-linking agent to a butyl rubber polymer, wherein the butyl rubber polymer comprises a copolymer of isobutylene, isoprene and divinylbenzene.

8. (new) An electrolytic capacitor according to claim 4, wherein the sealing member comprises a partial cross-linking peroxide butyl rubber which is formed by adding peroxide as a cross-linking agent to a butyl rubber polymer, wherein the butyl rubber polymer comprises a copolymer of isobutylene, isoprene and divinylbenzene.